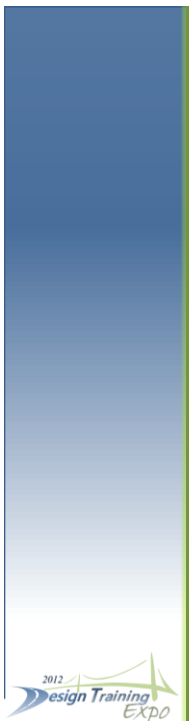


Subassemblies and Corridors

Civil 3D 2012



Contact Information:

Mary Ann Peterman

FDOT ENGINEERING / CADD SYSTEMS OFFICE
CADD Applications Development Specialist

Email:

mary.peterman@dot.state.fl.us

Phone:

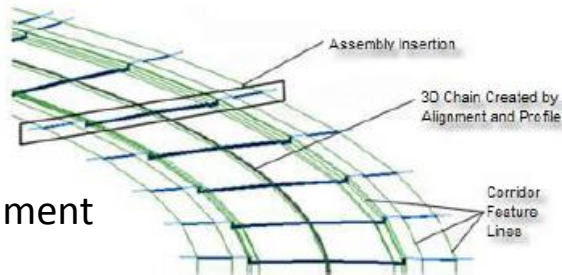
[850-245-1623](tel:850-245-1623) W-F

The Corridor Model

Corridors are the “the application of assemblies along baselines at a given frequency”

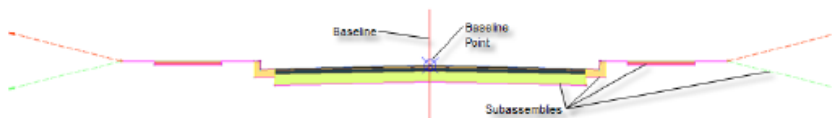
What do I need?

1. Horizontal Alignment
2. Profile
3. Assembly



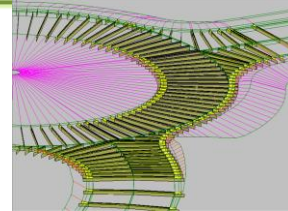
The Assembly

- Objects composed of Subassemblies
- Assemblies can be saved for reuse



The Subassembly

- Subassemblies are intelligent objects that can modify themselves according to inputs made by the user.



- Understanding how subassemblies work is key to using them successfully in AutoCAD Civil 3D

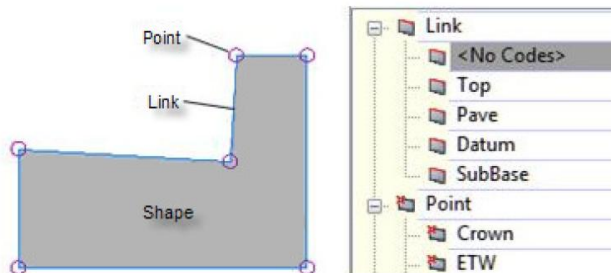
- They are building blocks to 3D Corridor model.



Subassemblies

1. Point Codes – Name the corridor feature lines
2. Link Codes – Control corridor surface creation, earthwork, etc.
3. Shape Codes – Control structure volumes

*Display management is central to all three



Subassembly Help - Key to Success!

- Description
- Attachment Location
- Input Parameters
- Target Parameters
- Output Parameters
- Behavior
- Layout Mode
- Point, Link and Shape Codes
- Coding Diagram

Data	
Plot style	ByColor
Lineweight	ByLayer
Default Loop In Layout Mode	Last
Default Loop Offset In Layout Mode	10.0000
Geometry Generate Mode	.NET
.NET Class Name	SubassemblyOverlayMillAndLevel2
.NET Assembly Name	C:\ProgramData\Autodesk\C3D 201...

ADVANCED	
Parameters	
Left Overlay Slope	-2.00%
Right Overlay Slope	-2.00%
Version	R2013
Superelevation Axis of Rotation	Unsupported
Crown Point Offset	0.000'
Left Sample Point Offset	0.000'
Right Sample Point Offset	0.000'
Left Trim Point Offset	0.000'
Right Trim Point Offset	0.000'
Left Overlay Slope Options	Match slope
Default Left Overlay Slope	-2.00%
Right Overlay Slope Options	Match slope
Default Right Overlay Slope	-2.00%
Slope Tolerance	0.50%
Use Profile	Use minimum clearance
Minimum Clearance	0.300'
Overlay Depth	0.300'